

Requisition Letter

From,
Dr.C.Saravanan,
Head of the Department,
Department of Electrical and Electronics Engineering,
JKK Munirajah college of Technology,
T.N. Palayam.

To,
The Principal,
JKK Munirajah college of Technology,
T.N. Palayam.
Respected Sir,

Sub: Seeking permission for conducting a Certificate Programme-Reg

We have planned to conduct a certificate Programme for II-, III- and IV-year Electrical and Electronics Engineering students on "Energy Audit & Testing Commissioning" from 21.08.2023 to 26.08.2023 by Programme coordinator Mr. T.S.Thambiran, So, I request you to kindly provide permission to conduct the certificate Programme.

Thanking You,

Place: T.N.Palayam

Date: 11.08.2023

Permitted
[Signature]
11/08/23

Yours Truly,

[Signature]
11/08/23
(Dr.C.Saravanan)

[Signature]
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JKKMCT/CIRCULAR/AUG-22

DATE: 14/08/2023

CIRCULAR

The Department of Electrical and Electronics Engineering is planning to organize a Certificate Programme on **"ENERGY AUDIT & TESTING COMMISSIONING" (36 Hours)** for the benefit of the students from **21/08/2023 (Monday) to 26/08/2023 (Saturday)**. Students those who are willing to attend the course can enroll their names to their class in-charge respectively on or before **18/08/2023**.





Copy To,

All the HODs and Staff Members,

The Student's circulation,

Notice Boards and File


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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

PROGRAMME SYLLABUS

Programme Name: **ENERGY AUDIT & TESTING COMMISSIONING**

Programme Code: 23EEEATCP01

Programme Coordinator Name: Mr. T.S.Thambiran. M.E.,

Total Hours: 36 Hrs

CHAPTER 1:

Introduction to Energy Management

- Importance of Energy Conservation
- Energy Sources and their Utilization
- Energy Efficiency Concepts
- National and International Energy Policies
- Role of Energy Auditors and Commissioning Engineers

CHAPTER 2:


Energy Audit Fundamentals

- Types of Energy Audits
- Energy Audit Methodology
- Data Collection and Analysis
- Energy Balance and Sankey Diagrams
- Energy Performance Indicators (EPIs)
- Benchmarking and Target Setting

CHAPTER 3:

Electrical Systems

- Power Quality Analysis


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- Motor Efficiency and Power Factor Improvement
- Transformer Efficiency and Losses
- Lighting Systems and Controls
- Electrical Distribution Systems

CHAPTER 4:

HVAC Systems

- HVAC System Components and Operation
- Air and Water Systems Analysis
- Controls and Instrumentation
- Energy Efficiency Measures for HVAC Systems

CHAPTER 5:


Building Systems

- Building Envelope and Insulation
- Lighting and Daylighting
- HVAC Systems Integration
- Building Automation Systems (BAS)
- Energy-Efficient Building Design and Retrofitting

CHAPTER 6:

Industrial Processes

- Process Heating and Cooling
- Compressed Air Systems


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- Steam Systems
- Material Handling Systems
- Process Optimization and Waste Heat Recovery

CHAPTER 7:

Testing and Commissioning

- Pre-Commissioning Activities
- System Testing and Performance Verification
- Commissioning Procedures and Documentation
- Troubleshooting and Corrective Actions
- Post-Commissioning Monitoring and Evaluation

CHAPTER 8:


Instrumentation and Measurement

- Measurement Techniques and Instruments
- Data Acquisition and Analysis
- Uncertainty Analysis
- Calibration and Maintenance of Instruments

CHAPTER 9:

Energy Management Software

- Energy Management Information Systems (EMIS)
- Data Logging and Monitoring
- Energy Performance Tracking


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- Reporting and Analysis Tools

CHAPTER 10:

Legal and Regulatory Framework

- Energy Conservation Act and Rules
- Performance Contracting
- Labeling and Standards
- Financing Mechanisms for Energy Efficiency Projects

Prepared by:

Name: Mr.T.S.Thambiran, M.E.,

Designation: Asst.Prof/EEE Department

PROGRAMME COORDINATOR

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PROGRAMME SCHEDULE: ENERGY AUDIT & TESTING COMMISSIONING

SCHEDULE PERIOD: 21.08.2023 TO 26.08.2023

Dates/ Duration	09:30 AM to 11:30 AM (02.00 hr)		11.45 AM to 1.15 PM (01.30 hr)		2:00 PM to 4.20 PM (02.30hr)
21.08.2023	Registration and Inauguration		Introduction about Energy Audit and Testing commissioning		Session 1 Introduction to Energy Management <ul style="list-style-type: none"> ❖ Importance of Energy Conservation ❖ Energy Sources and their Utilization ❖ Energy Efficiency Concepts
22.08.2023	Session 2 Energy Audit Fundamentals <ul style="list-style-type: none"> ❖ Types of Energy Audits ❖ Energy Audit Methodology ❖ Data Collection and Analysis 	BREAK	Session 3 <ul style="list-style-type: none"> ❖ Energy Balance and Sankey Diagrams ❖ Energy Performance Indicators (EPIs) ❖ Benchmarking and Target Setting 	LUNCH	Session 4 Electrical Systems <ul style="list-style-type: none"> ❖ Power Quality Analysis ❖ Motor Efficiency and Power Factor Improvement ❖ Transformer Efficiency and Losses ❖ Lighting Systems and Controls
23.08.2023	Session 5 HVAC Systems <ul style="list-style-type: none"> ❖ HVAC System Components and Operation 		Session 6 Building Systems <ul style="list-style-type: none"> ❖ Building Envelope and 		Session 7 Industrial Processes <ul style="list-style-type: none"> ❖ Process Heating and Cooling

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	<ul style="list-style-type: none"> ❖ Air and Water Systems Analysis ❖ Controls and Instrumentation ❖ Energy Efficiency Measures for HVAC Systems 		<ul style="list-style-type: none"> Insulation ❖ Lighting and Daylighting ❖ HVAC Systems Integration ❖ Building Automation Systems (BAS) 		<ul style="list-style-type: none"> ❖ Compressed Air Systems ❖ Steam Systems ❖ Material Handling Systems
24.08.2023	<p style="text-align: center;">Session 8 Testing and Commissioning</p> <ul style="list-style-type: none"> ❖ Pre-Commissioning Activities ❖ System Testing and Performance Verification ❖ Commissioning Procedures and Documentation 		<p style="text-align: center;">Session 9</p> <ul style="list-style-type: none"> ❖ Troubleshooting and Corrective Actions ❖ Post-Commissioning Monitoring and Evaluation ❖ 		<p style="text-align: center;">Session 10</p> <p>Instrumentation and Measurement</p> <ul style="list-style-type: none"> ❖ Measurement Techniques and Instruments ❖ Data Acquisition and Analysis
25.08.2023	<p style="text-align: center;">Session 11</p> <ul style="list-style-type: none"> ❖ Uncertainty Analysis ❖ Calibration and Maintenance of Instruments 		<p style="text-align: center;">Session 12</p> <p>Energy Management Software</p> <ul style="list-style-type: none"> ❖ Energy Management Information Systems (EMIS) ❖ Data Logging and Monitoring 		<p style="text-align: center;">Session 13</p> <ul style="list-style-type: none"> ❖ Energy Performance Tracking ❖ Reporting and Analysis Tools


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26.08.2023	Session 14 Legal and Regulatory Framework <ul style="list-style-type: none">❖ Energy Conservation Act and Rules❖ Performance Contracting❖ Labeling and Standards❖ Financing Mechanisms for Energy Efficiency Projects		Session 15 Practical Sessions and Case Studies: <ul style="list-style-type: none">❖ Conducting Energy Audits in Different Sectors❖ Analyzing Energy Data and Identifying Savings Opportunities❖ Developing Energy Conservation Measures	Session 16 <ul style="list-style-type: none">❖ Commissioning HVAC Systems❖ Testing Electrical Equipment❖ Preparing Energy Audit Reports and Proposals
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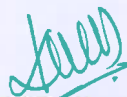
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CERTIFICATE PROGRAMME TRAINING ON ENERGY AUDIT & TESTING COMMISIONING
STUDENTS WILLING LIST

S · N O	REG NO	NAME OF THE STUDENT	WILLING STUDENTS SIGNATURE
IV EEE			
1	731220105002	DHINESH.P	P. Dhin
2	731220105003	ISAKKIRAJA.P	P. Ravi
3	731220105004	KIRUBASANKAR.C	← NOT WILLING →
4	731220105005	MUKESH.S	Sub
5	731220105006	NAVEENKUMAR.G	G. Naveenkumar
6	731220105007	ROHAN.R	R. Rth
7	731220105009	SIVAGIRI.K	K. Sivagiri
8	731220105011	THIRUMARAN DILEEBAN.S	Thirumaran


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9	731220105301	MAHESWARI.P	P. maharaj
III EEE			
10	731221105001	BALAJI B	Balaji B.
11	731221105002	DEVI M	M. Devi
12	731221105003	DHAYANITHI M	M. Dhayanithi
13	731221105004	HARIHARAN S	S. Hariharan
14	731221105006	JOTHI S	S. Jothi
15	731221105007	KARTHICK M	M. Karthick
16	731221105009	ROJA S	S. Roja
17	731221105010	SANTHOSH M	M. Santhosh
18	731221105011	SANJAY M V	M. Sanjay
19	731221105012	SARANKUMAR A	← NOT WILLING →
20	731221105013	SARAVANAN A	A. Saravanan
21	731221105014	SATHISH P	P. Sathish

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22	731221105015	VENKATESHWARAN J	J. Venky
23	731221105301	AGIMISH K G	← NOT WILLING →
24	731221105302	KARTHICK C	C. Karthick
25	731221105303	RANJITHA N	N. Ranjitha
26	731221105305	TAMIL SELVAN T	T. Tamil Selvan
II EEE			
27	731222105001	AKASH.R	A. Akash
28	731222105002	DEEPIKA.E	Deerj
29	731222105003	ELANGO VAN.S	Elango S
30	731222105004	GOPIKA.N	N. Gopi
31	731222105005	KARTHIK.S	Sury
32	731222105006	LOGESWARI.E	Logeswari
33	731222105007	MADHAN.M	M. Madhan


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34	731222105008	MANIKANDAN.M	M. Manikandan
35	731222105009	MANIKANDAN.S	Mani S.
36	731222105010	MEGANATHAN.P	P. Meganathan
37	731222105011	MOUNISHWARAN.K	K. Mounishwaran
38	731222105012	MUTHUKUMARAN .S	S. Muthukumar
39	731222105013	MYTHILI.M	Mythili M
40	731222105014	NITHISH KUMAR.S	S. Nithish Kumar
41	731222105015	PARANJOTHI.P	P. Paranjothi
42	731222105016	PRAVEENKUMAR.V	V. Praveenkumar
43	731222105017	RASU.R	R. Rasu
44	731222105018	RATHIPRIYA.I	I. Rathipriya
45	731222105019	RAVI.R	R. Ravi
46	731222105020	SANTHOSHKUMAR.M	M. Santhosh Kumar
47	731222105021	SARANRAJ.G	G. Saranraj

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48	731222105022	SASIKUMAR.S	<i>S. Sasi Kumar</i>
49	731222105023	SENATHIPATHINATHAN.K	<i>K. Senathipathan</i>
50	731222105024	SIDDARAJI.S	<i>Siddaraji S.</i>
51	731222105026	SRIKANTH.P	<i>P. Srikanth</i>
52	731222105027	SURYA.S.K	<i>S.K. Surya</i>
53	731222105028	SUTHARSAN .P	<i>S. Sutharsan</i>
54	731222105029	VASANTHAKUMAR.R	<i>R. Vasanthakumar</i>
55	731222105302	ANGAMUTHU.G	← NOT WILLING →
56	731222105303	ANTONY BARATH.M	<i>M. Antony Barath</i>
57	731222105305	BHARANITHARAN.K	<i>K. Bharanitharan</i>
58	731222105307	DHARUN.G	<i>G. Dharmu</i>
59	731222105310	GOWRIPRASAD.D S	<i>D.S. Gowripasad</i>
60	731222105313	ILAMBARATH.S	← NOT WILLING →
61	731222105314	KARTHI.M	<i>M. Karthi</i>

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62	731222105316	KIRITHIKA.N	N. lei ri thika
63	731222105317	LAKSMANAN.K	M. Lakshmanan.
64	731222105319	MANIKANDAN.K	K. Mani Karan
65	731222105321	MUKILAN.B	B. Mukilan
66	731222105322	NAGASUNDHARAMOORTH I.K	K. Nagaraj
67	731222105324	NIVETHIKA.G	G. Nivethika
68	731222105325	PADMANABAN.A	A. PADMANABAN
69	731222105328	RAGUL.M V	M.V. Ragul
70	731222105329	RANJITHKUMAR.M	M. Ranjithkumar
71	731222105331	SARAN.S	S. Saran
72	731222105333	SUBTHRA.P	P. Subthra
73	731222105336	SUSHMAKUMARI	Sushmakumari
74	731222105337	VARSHINI.A.P	Varshini


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M.E.(PED)-II YEAR			
75	731222415001	PREJITHA.S	S. Prejitha
76	731222415002	ROOPANDURAI.G	G. Rooparaj
M.E.(PED)-I YEAR			
77	731223415001	AMSAVENI.M	M. A. Veni
78	731223415002	DHARANI.P	P. Dhara


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14	731221105007	KARTHICK M
15	731221105009	ROJA S
16	731221105010	SANTHOSH M


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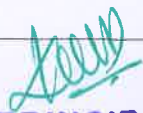
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17	731221105011	SANJAY M V
18	731221105014	SATHISH P
19	731221105015	VENKATESHWARAN J
20	731221105302	KARTHICK C
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22	731221105305	TAMIL SELVAN T
II EEE		
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36	731222105014	NITHISH KUMAR.S
37	731222105015	PARANJOTHI.P
38	731222105016	PRAVEENKUMAR.V


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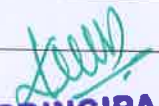
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41	731222105019	RAVI.R
42	731222105020	SANTHOSHKUMAR.M
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44	731222105023	SENATHIPATHINATHAN.K
45	731222105024	SIDDARAJI.S
46	731222105026	SRIKANTH.P
47	731222105027	SURYA.S.K
48	731222105028	SUTHARSAN .P
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52	731222105307	DHARUN.G
53	731222105310	GOWRIPRASAD.D S
54	731222105314	KARTHI.M
55	731222105316	KIRITHIKA.N
56	731222105317	LAKSMANAN.K
57	731222105319	MANIKANDAN.K
58	731222105321	MUKILAN.B
59	731222105324	NIVETHIKA.G
60	731222105328	RAGUL.M V
61	731222105329	RANJITHKUMAR.M
62	731222105331	SARAN.S


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63	731222105333	SUBTHRA.P
64	731222105336	SUSHMAKUMARI
65	731222105337	VARSHINI.A.P
M.E.(PED)-II YEAR		
66	731222415001	PREJITHA.S
67	731222415002	ROOPANDURAI.G
M.E.(PED)-I YEAR		
68	731223415001	AMSAVENI.M
69	731223415002	DHARANI.P

PROGRAMME COORDINATOR

HOD

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CERTIFICATE COURSE - **TRAINING ON ENERGY AUDIT & TESTING COMMISSIONING**

ATTENDANCE SHEET

ACADEMIC YEAR [2023-2024]

S.NO	NAME OF THE STUDENT	ATTENDANCE OF THE PARTICIPANTS													
		21.08.23		22.08.23		23.08.23		24.08.23		25.08.23		26.08.23			
		FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	FN	AN		
IV YEAR															
1	DHINESH.P	/	/	/	/	/	/	/	/	/	/	/	/	/	
2	ISAKKIRAJA.P	/	/	/	/	/	/	/	/	/	/	/	/	/	
3	MUKESH.S	/	/	/	/	/	/	/	/	/	/	/	/	/	
4	NAVEENKUMAR.G	/	/	/	/	/	/	/	/	/	/	/	/	/	
5	ROHAN.R	/	/	/	/	/	/	/	/	/	/	/	/	/	
6	SIVAGIRI.K	/	/	/	/	/	/	/	/	/	/	/	/	/	

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7	THIRUMARAN DILEEBAN.S	/	/	/	/	/	/	/	/	/	/	/	/
8	MAHESWARI.P	/	/	/	/	/	/	/	/	/	/	/	/
III YEAR													
9	BALAJI B	/	/	/	/	/	/	/	/	/	/	/	/
10	DEVI M	/	/	/	/	/	/	/	/	/	/	/	/
11	DHAYANITHI M	/	/	/	/	/	/	/	/	/	/	/	/
12	HARIHARAN S	/	/	/	/	/	/	/	/	/	/	/	/
13	JOTHI S	/	/	/	/	/	/	/	/	/	/	/	/
14	KARTHICK M	/	/	/	/	a	/	/	/	/	/	/	/
15	ROJA S	/	/	/	/	/	/	/	/	/	/	/	/
16	SANTHOSH M.	/	/	/	/	/	/	/	/	/	/	/	/


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17	SANJAY M V	/	/	/	/	/	/	a	/	/	/	/	/
18	SARAVANAN A	/	/	/	/	/	/	/	/	/	/	/	/
19	SATHISH P	/	/	/	/	/	/	/	/	/	/	/	/
20	VENKATESHWARAN J	/	/	/	/	/	/	/	/	/	/	/	/
21	KARTHICK C	/	/	/	/	/	/	/	/	/	/	/	/
22	RANJITHA N	/	/	/	/	/	/	/	/	/	/	/	/
23	TAMIL SELVAN T	/	/	/	/	/	/	/	/	/	/	/	/
II YEAR													
24	AKASH.R	/	/	/	/	/	/	/	/	/	/	/	/
25	DEEPIKA.E	/	/	/	/	/	/	/	/	/	/	/	/
26	ELANGO VAN.S	/	/	/	/	/	/	/	/	/	/	/	/


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27	GOPIKA.N	/	/	/	/	/	/	/	/	/	/	/	/
28	KARTHIK.S	/	/	/	/	/	/	/	/	/	/	/	/
29	LOGESWARLE	/	/	/	/	/	/	/	/	/	/	/	/
30	MADHAN.M	/	/	/	/	/	/	/	/	/	/	/	/
31	MANIKANDAN.M	/	/	/	/	/	/	/	/	/	/	/	/
32	MANIKANDAN.S	/	/	/	/	/	/	/	/	/	/	/	/
33	MEGANATHAN.P	/	/	/	/	/	/	/	/	/	/	/	/
34	MOUNISHWARAN.K	/	/	/	/	/	/	/	/	/	/	/	/
35	MUTHUKUMARAN .S	/	/	/	/	/	/	/	/	/	/	/	/
36	MYTHILI.M	/	/	/	/	/	/	/	/	/	/	/	/
37	NITHISH KUMAR.S	/	/	/	/	/	/	/	/	/	/	/	/


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38	PARANJOTHI.P	/	/	/	/	/	/	/	/	/	/	/	/
39	PRAVEENKUMAR.V	/	/	/	/	/	/	/	/	/	/	/	/
40	RASU.R	/	/	/	/	/	/	/	/	/	/	/	/
41	RATHIPRIYA.I	/	/	/	/	/	/	/	/	/	/	/	/
42	RAVI.R	/	/	/	/	/	/	/	/	/	/	/	/
43	SANTHOSHKUMAR.M	/	/	/	/	/	/	/	/	/	/	/	/
44	SARANRAJ.G	/	/	/	/	/	/	/	/	/	/	/	/
45	SASIKUMAR.S	/	/	/	/	/	/	/	/	/	/	/	/
46	SENATHIPATHINATHAN.K	/	/	a	a	/	/	/	/	/	/	/	/
47	SIDDARAJI.S	/	/	/	/	/	/	/	/	/	/	/	/
48	SRIKANTH.P	/	/	/	/	/	/	/	/	/	/	/	/

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49	SURYA.S.K	/	/	/	/	/	/	/	/	/	/	/	/
50	SUTHARSAN .P	/	/	/	/	/	/	/	/	/	/	/	/
51	VASANTHAKUMAR.R	/	/	/	/	/	/	/	/	/	/	/	/
52	ANTONY BARATH.M	/	/	/	/	/	/	/	/	/	/	/	/
53	BHARANITHARAN.K	/	/	/	/	/	/	/	/	/	/	/	/
54	DHARUN.G	/	/	/	/	/	/	/	/	/	/	/	/
55	GOWRIPRASAD.D S	/	/	/	/	/	/	/	a	/	/	/	/
56	KARTHI.M	/	/	/	/	/	/	/	/	/	/	/	/
57	KIRITHIKA.N	/	/	/	/	/	/	/	/	/	/	/	/
58	LAKSMANAN.K	/	/	/	/	/	/	/	/	/	/	/	/
59	MANIKANDAN.K	/	/	/	/	/	/	/	/	/	/	/	/



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60	MUKILAN.B	/	/	/	/	/	/	/	/	/	/	/	/
61	NAGASUNDHARAMOORTHY.K	/	/	/	/	/	/	/	/	/	/	/	/
62	NIVETHIKA.G	/	/	/	/	/	/	/	/	/	/	/	/
63	RAGUL.M V	/	/	/	/	/	/	/	/	/	/	/	/
64	RANJITHKUMAR.M	/	/	/	/	/	/	/	/	/	/	/	/
65	SARAN.S	/	/	/	/	/	/	/	/	/	/	/	/
66	SUBTHRA.P	/	/	/	/	/	/	/	/	/	/	/	/
67	SUSHMAKUMARI	/	/	/	/	/	/	/	/	/	/	/	/
68	VARSHINI.A.P	/	/	/	/	/	/	/	/	/	/	/	/
M.E.(PED)-II YEAR													
69	DEIVAMANI.P	/	/	/	/	/	/	/	/	/	/	/	/


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70	MANIMEGALAI.P	/	/	/	/	/	/	/	/	/	/	/	/
M.E.(PED)-I YEAR													
71	PREJITHA.S	/	/	/	/	/	/	/	/	/	/	/	/
72	ROOPANDURAI.G	/	/	/	/	/	/	/	/	/	/	/	/
TOTAL NUMBER OF PRESENT		72	72	71	71	71	72	71	71	72	72	72	72
TOTAL NUMBER OF ABSENT		-NIL-	-NIL-	01	01	01	-NIL-	01	01	-NIL-	-NIL-	-NIL-	-NIL-
SIGNATURE OF PROGRAMME COORDINATOR													
SIGNATURE OF HOD													
		21/8	21/8	22/8	22/8	23/8	23/8	24/8	24/8	25/8	25/8	26/8	26/8

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Resource Person Profile

Title of the Programme	Training On Energy Audit & Testing Commissioning
Duration and Timing of the Programme	21/08/2023 to 26/08/2023
Name of the Resource Person	Mr. T.S.Thambiran,
Photo Image of the Resource Person	
E-mail	thambirants@jkkmct.edu.in
Mobile No:	9965583599
Designation	AP/EEE
Official Address	Department Of EEE, JKKMCT, T.N.Palayam- 638506, Erode (Dt)
Educational Qualification	B.E.(Electrical and Electronics Engineering), M.E.(Power Electronics & Drives)
Experience	13 years of Teaching Experience as Assistant Professor
Field of Interest	Power Electronics & Drives


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ASSESSMENT - TRAINING ON ENERGY AUDIT & TESTING COMMISSIONING

ANSWER ALL THE QUESTIONS

(15*2=30 MARKS)

1. As per Electricity Act, _____ means any line which is used for carrying electricity for any purpose.
 - A. Electric line
 - B. Transmission line
 - C. All of the above
 - D. None of the above
2. According to Indian Electricity Act, the permissible voltage drop at the consumer terminals of a distribution feeder is
 - A. $\pm 10\%$
 - B. $\pm 12\%$
 - C. $\pm 3\%$
 - D. $\pm 6\%$
3. As per the electricity rules, 1956 for low voltage and medium voltage lines, no conductor of an overhead line, including service lines, erected across a street shall at any part there of be at a height of less than
 - A. 5.8 meters
 - B. 5.5 meters
 - C. 6.4 meters
 - D. 6.1 meters
4. According to electricity rule, which type of pole is not used in overhead line?
 - A. Wooden poles
 - B. Concrete poles
 - C. Rail electric poles
 - D. Silicon PVC poles


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5. Which out of the following is not a function of the State Electricity Regulatory Commission
 - A. Regulate the operations of intrastate transmission
 - B. To determine bulk and retail tariffs to be charged to customers
 - C. Regulate operations of the State Load Dispatch Center (SLDC)
 - D. Regulate operations of the Regional Load Dispatch Center (RLDC)

6. The Central Electricity Regulatory Commission (CERC) is mainly responsible for:
 - A. Regulating tariffs for generation and inter-state transmission of energy including tariffs
 - B. Advising the government on tariff policy and promoting competition
 - C. Efficiency and economy in the electricity industry.
 - D. All of the above

7. As per IEGC who is responsible for discharging all functions of planning and co-ordination relating to inter-State transmission system in co-ordination with various agencies
 - A. Regional Power Committee (RPC)
 - B. Regional Load Despatch Centre (RLDC)
 - C. Central Transmission Utility (CTU)
 - D. Central Electricity Authority (CEA)

8. Which of the following industry has highest potential of cogeneration in India?
 - A. Petrochemicals
 - B. Sugar
 - C. Polyester fibre
 - D. Rice mills

9. Providing information to BEE is the role of energy manager as per
 - A. Energy Conservation Act 2003
 - B. Energy Conservation Act 2004
 - C. Energy Conservation Act 2002
 - D. Energy Conservation Act 2001


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10. Star labeling of the electrical products are given by _____.
- A. IRDA
 - B. GEDA
 - C. Central Electricity Regulatory Authority
 - D. Bureau of Energy Efficiency
11. _____ is monitoring implementation, Promoting and facilitating of Energy Conservation Building Codes.
- A. BIS
 - B. BEE
 - C. CEA
 - D. SLDC
12. According to the National Electrical code (NEC) Article 408, the individual overcurrent protection must be provided for a lighting and appliance branch-circuit panelboard of not more than _____ Set (s) of circuit breakers of fuses.
- A. one
 - B. four
 - C. two
 - D. three
13. According to National Building Code of India, Fire and Life safety for high rise buildings, the compulsory open spaces around the building shall not be used for parking under _____. Converter
- A. Part-1
 - B. Part-2
 - C. Part-3
 - D. Part-4


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14. A systematic approach for decision making in the area of energy management which attempts to balance the total energy inputs with its used and quantifies the energy usage on the basis of its discrete functions is called.

- A. Energy banking
- B. Energy audit
- C. Energy rating
- D. Energy benchmarking

15. One of the disadvantages of energy wheeling is

- A. One of the disadvantages of energy wheeling is
- B. The determination of plant diversity factor
- C. The determination of loss coefficients
- D. The determination of plant penalty factor


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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

SUMMARY / OUTCOME REPORT

Name of the Certificate Programme: **TRAINING ON ENERGY AUDIT & TESTING**

COMMISSIONING

Course Code : 23EEEATCP01

Name of the Course Coordinator : Mr. T.S.Thambiran

I hereby affirm that the entire Programme contents in the Certificate Programme

"TRAINING ON WIRELESS POWER TRANSFER SYSTEM"

” listed in the Add on course Syllabus have been actually performed by the students as the part of the prescribed co-curricular activities through Add on course by NAAC and NBA.

I confirmed that the Certificate Programme title as **TRAINING ON ENERGY AUDIT & TESTING COMMISSIONING** Bench was done by me in the beginning of this semester and course delivery with attendance of the students were recorded.


I confirmed that all registered students for this Certificate Course were actively attended and performed well throughout the duration of this course. And all students were successfully completed and eligible to receive the participation certificate.

Outcome: Students shall be able to gain the knowledge in

1. To provide a training course on description of the Training on Energy Audit and Testing Commissioning encourage the adoption of energy-efficient technologies and practices within organizations.
2. Our courses cover training on enhances the long-term performance and reliability of building systems and equipment.
3. The ability to achieve substantial reductions in energy consumption and associated costs.

Name : Mr. T.S.THAMBIRAN,

Designation : AP/EEE


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